

International Application No
PCT/EP2004/012421

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K48/00 A61K39/21 A61K9/50 A61P37/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, CHEM ABS Data, PAJ, MEDLINE, EMBASE, RAPRA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LAUS M ET AL: "Microspheres with hydrophilic and protein-friendly surface as protein delivery systems prepared by dispersion polymerization" JOURNAL OF CONTROLLED RELEASE, vol. 72, no. 1-3, 14 May 2001 (2001-05-14), pages 280-283, XP002321952 & SIXTH EUROPEAN SYMPOSIUM ON CONTROLLED DRUG DELIVERY; NOORDWIJK AAN ZEE, NETHERLANDS; APRIL 12-14, 2000 ISSN: 0168-3659 page 280, last paragraph page 281, lines 7-17,22-27; figure 1 page 283, lines 1-6 ----- -/--	1-7,10, 11,14

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the international search

22 March 2005

Date of mailing of the international search report

12/04/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Villa Riva, A

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/012421

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DINELLA, C. ET AL: "Immobilization and reactivity of enzymes on functional particles prepared by dispersion polymerization" MACROMOL. RAPID COMMUN. 15(12), P.909-915, 7P,3F,1T,17L CODEN: MRCOE3, 1994, XP002321953 page 909, last paragraph scheme 1 page 910, lines 9-16 page 910, last paragraph - page 911, line 30	1-4,6,7, 10,11,14
X	----- DE 101 18 852 A1 (FRICKER, GERT; FLAIG, RUEDIGER MARCUS) 31 October 2002 (2002-10-31) paragraphs '0054!, '0082! figure 1	1,12,14, 15
Y	----- US 5 334 394 A (KOSSOVSKY ET AL) 2 August 1994 (1994-08-02) abstract column 2, line 55 - column 3, line 5 column 3, lines 31-43 column 4, lines 36-40 column 5, lines 19-24	1,3,7,8, 10-16
Y	----- DE 30 48 883 A1 (BOEHRINGER MANNHEIM GMBH;TSCHSCHOSLOWAKISCHE AKADEMIE DER WISSENSCHAFT) 15 July 1982 (1982-07-15) page 10, lines 1-7,18-32 page 13, lines 5-16	1-16
Y	----- EP 0 240 424 A (UNIVERSITE DE RENNES I) 7 October 1987 (1987-10-07) abstract page 2, line 59 - page 3, line 40 page 5, lines 6-17 page 5, lines 31-37 examples	1-16

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/012421

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 12, 13 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/012421

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 10118852	A1	31-10-2002	AU 7627601 A	08-01-2002
			AU 8192101 A	08-01-2002
			WO 0200162 A2	03-01-2002
			DE 10192797 D2	06-11-2003
			WO 0200191 A2	03-01-2002
			EP 1333806 A2	13-08-2003
			US 2004062815 A1	01-04-2004
US 5334394	A	02-08-1994	US 5219577 A	15-06-1993
			US 5178882 A	12-01-1993
			AU 5600994 A	15-08-1994
			AU 5726694 A	15-08-1994
			AU 6955494 A	15-08-1994
			CA 2152379 A1	21-07-1994
			CA 2152490 A1	21-07-1994
			CA 2153147 A1	16-03-1999
			EP 0689421 A1	03-01-1996
			EP 0676954 A1	18-10-1995
			EP 0676955 A1	18-10-1995
			JP 8505788 T	25-06-1996
			JP 8505387 T	11-06-1996
			JP 2875629 B2	31-03-1999
			JP 9504265 T	28-04-1997
			US 5306508 A	26-04-1994
			US 5441739 A	15-08-1995
			WO 9415581 A1	21-07-1994
			WO 9415585 A1	21-07-1994
			WO 9415586 A1	21-07-1994
			US 5460830 A	24-10-1995
			US 5462751 A	31-10-1995
			US 5460831 A	24-10-1995
			US 5464634 A	07-11-1995
			US 5639505 A	17-06-1997
			AT 104546 T	15-05-1994
			AU 638841 B2	08-07-1993
			AU 7921091 A	02-01-1992
			CA 2045204 A1	23-12-1991
			DE 69101753 D1	26-05-1994
			DK 465081 T3	16-05-1994
			EP 0465081 A1	08-01-1992
			ES 2055539 T3	16-08-1994
			IE 912150 A1	01-01-1992
			JP 2932406 B2	09-08-1999
			JP 5255111 A	05-10-1993
			PT 98066 A , B	31-03-1992
			US 5462750 A	31-10-1995
DE 3048883	A1	15-07-1982	AT 20670 T	15-07-1986
			DE 3174918 D1	14-08-1986
			EP 0054685 A2	30-06-1982
			JP 1542826 C	15-02-1990
			JP 57135801 A	21-08-1982
			JP 60043361 B	27-09-1985
			JP 1583316 C	22-10-1990
			JP 2008271 B	23-02-1990
			JP 59116548 A	05-07-1984
			US 4415700 A	15-11-1983

BEST AVAILABLE COPY

Information on patent family members

International Application No

PCT/EP2004/012421

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0240424	A	07-10-1987	FR	2596399 A1	02-10-1987
			DE	3770308 D1	04-07-1991
			EP	0240424 A1	07-10-1987
			ES	2029844 T3	01-10-1992
<hr/>					